

8.4 lbs

Pulled & Installed

Work Order ID 124577

124577

Page 1

Tuesday, September 16, 2014 8:29:55 AM

Item ID: 41228-202-133-004

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 9/30/14 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan: [Signature] Date: 14-9-16 Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
41228-202-133	D1

110 0.00

110

Small Fab Memo 0.00
Small Fab MANUFACTURE AS PER DWG'S

1 φ KC
14/09/30

120 QC5- Inspect part completeness to step on W/O 0.00

120

QC Memo 0.00
Quality Control

① 1502-02 DAS 9 9-89

130 Identify as per dwg & Stock Location: OA 0.00

130

Packaging Memo 0.00
Packaging

① KC 14/09/12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td style="width: 25%;">Skid-tube ☐</td> <td style="width: 25%;">Crosstube ☐</td> <td style="width: 25%;">Water Jet ☐</td> <td style="width: 25%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design ☐									
Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge	☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 124577

Tuesday, September 16, 2014 8:29:55 AM

124577

Page 2

Item ID: 41228-202-133-004

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 9/30/14 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

140

QC21- Final Inspection - Work Order Release

0.00

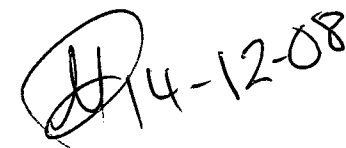
140

QC

Memo

0.00

Quality Control



MS 1502-09

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Crosstube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Tuesday, September 16, 2014 8:30:00 AM

Page 1

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 14.08.01 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

21228-301-005-004

Purchased

No

Each

6.0000

1

21228-301-005-004

Decal

Location

Loc Qty

Loc Code

CA

6

m129682

6

601.3400

Purchased

No

Each

0.0000

3

601.3400

NUT

MS 21042-3

M129682 ?

NAS1149D0463J

Purchased

No

Each

5,102.000

13

NAS1149D0463.J

WASHER

Location

Loc Qty

Loc Code

CA

485

M129682

485

ST277

4617

113706

1

16941

8

M126221

20

M127813

6

M127904

16

M128591

44

M128995

1500

M129390

3022

KC 10/09/15

14/09/30 KC

14/09/30 KC

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
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Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Tuesday, September 16, 2014 8:30:00 AM

Page 2

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

650.0210 Purchased No Each 16.0000 3

✓ ***650 0210***
DRAIN VALVE NUT

~~A-500~~ A.

**

~~78~~ 14/09/30 KC.

Location

Loc Qty

Loc Code

CA
M129682

16
16

Each

58.0000

**

1

14/09/30 / KC

15-716 Purchased No Each 58.0000

✓ ***15-716***

Gasket 481-4814-1 Alternate

Location

Loc Qty

Loc Code

CA
M129682

58
58

Each

117.0000

**

1

14/09/30 / KC

MS29512-08 Purchased No Each 117.0000

✓ ***MS29512-08***

O-RING

Location

Loc Qty

Loc Code

ST284
m125773
m128224
m129593
m129624

117
7
10
50
50

Each

50.0000

**

1

14/09/30 KC

MS29513-010 Purchased No Each 50.0000

✓ ***MS29513-010***

O-RING

Location

Loc Qty

Loc Code

ST284
m129624

50
50

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Tuesday, September 16, 2014 8:30:00 AM

Page 3

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

MS29513-020

Purchased

No

Each

33.0000

1

MS29513-020

O-RING

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

3

m129682

3

ST284

30

m129630

30

Each

20.0000

1

MS29513-113

Purchased

No

MS29513-113

O-RING

**

14/09/30 KC

Location

Loc Qty

Loc Code

ST285

20

m129541

20

Each

62.0000

1

MS29513-270

Purchased

No

MS29513-270

O-RING

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

62

M129682

62

Each

6.0000

1

11728-200-012-001

Purchased

No

11728-200-012-001

TRANSFER MOUNTING PLATE

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

6

m129575

5

m129682

1

M129575

~~M129682~~

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td style="width: 25%;">Skid-tube ☐</td> <td style="width: 25%;">Crosstube ☐</td> <td style="width: 25%;">Water Jet ☐</td> <td style="width: 25%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Design ☐									
Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Tuesday, September 16, 2014 8:30:00 AM

Page 4

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

11728-200-014-001

Purchased

No

Each

9.0000

1

11728-200-014-001

SPACER RING

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

9

m129575

3

m129682

6

Each

30.0000

2

120-068-13

Purchased

No

120-068-13

SEAL

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

30

m129682

10

m129686

20

Each

12.0000

1

1C64-1

Purchased

No

1C64-1

BOOST PUMP

**

14/09/30 KG

Location

Loc Qty

Loc Code

CA

12

M129682

12

Each

0.0000

3

41228-202-091-001

Purchased

No

41228-202-091-001

Fuel Probe Gasket

**

14/09/30 KC

41228-202-091-003

Manufactured

No

Each

1.0000

1

41228-202-091-003

412 Transfer Pump Gasket

**

10/02/15 KC

Location

Loc Qty

Loc Code

CA

1

M129682

1

Tuesday, September 16, 2014 8:30:00 AM

Shop Packet Print

Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Offset/Setup									
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Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Page 5

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

41228-202-137-001

Manufactured

No

Each

11.0000

1

41228-202-137-001

Retainer

**

14/09/30 KC.

Location

Loc Qty

Loc Code

CA

11

m129682

11

Each

14.0000

1

41228-203-045-001

Manufactured

No

41228-203-045-001

Plug

**

14/09/30 KC.

Location

Loc Qty

Loc Code

CA

14

m129682

14

Each

4.0000

1

513B-8B

Purchased

No

513B-8B

DRAIN VALVE ELECTRIC

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

4

M129682

4

Each

1,874.000

1

MS27039-1-08

Purchased

No

MS27039-1-08

Screw

**

14/09/30 KC

Location

Loc Qty

Loc Code

ST305

1874

m123265

4

m125654

3

m128636

1867

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Crosstube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design ☐									
Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Page 6

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0363J

Purchased

No

Each

2,518.000

10

NAS1149D0363.I

Washer

14/09/30 KC.

Location

Loc Qty

Loc Code

GA

7

124392

7

ST276

1005

m123441

5

m130358

1000

ST510a

1506

m128429

1506

10

NAS1149D0332J

Purchased

No

Each

3,720.000

1

NAS1149D0332.I

Washer

14/09/30 KC.

Location

Loc Qty

Loc Code

CA

39

m129682

39

ST276

3681

m128606

38

m128612

1462

m129624

181

m130325

2000

5

AN3-12A

Purchased

No

Each

99.0000

AN3-12A

Bolt

14/09/30 KC.

Location

Loc Qty

Loc Code

CA

59

m129682

59

ST349

40

m125709

2

m128398

18

m129507

20

15

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Page 7

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

AN3H-10A

Purchased

No

Each

20.0000

1

AN3H-10A

BOLT

**

20 14/09/30 KC

Location

Loc Qty

Loc Code

ST349

20

m2129541

20

Each

13.0000

1

AN3H-7A

Purchased

No

AN3H-7A

BOLT

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

13

M129682

13

Each

355.0000

8

AN4-5A

Purchased

No

AN4-5A

BOLT

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

59

m129682

59

ST355

296

120562

192

15247

4

m127817

100

Each

99.0000

1

AN4H-42A

Purchased

No

AN4H-42A

BOLT

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

99

M129682

99

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

AN814-4DL

Purchased

No

Each

17.0000

1

AN814-4DL
PLUG

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

7

m129682

2

m129686

5

m129913

10

AN815-8D

Purchased

No

Each

24.0000

1

AN815-8D
Union-M-Flare

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

2

m129682

2

ST326

22

124239

12

m127290

10

NAS1149D0763J

Purchased

No

Each

34.0000

2

NAS1149D0763J
WASHER

**

14/09/30 KC

Location

Loc Qty

Loc Code

CA

34

M129682

34

AN960PD4

Purchased

No

Each

0.0000

6

AN960PD4
WASHER

**

14/09/30 KC

NAS1149 DN 432J

M129682

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Tuesday, September 16, 2014 8:30:00 AM

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

Each

2,650.000

3

MS21042L3

Nut

14/09/30 KC

Location

Loc Qty

Loc Code

ST307

2650

123900

934

M127410

11

M127831

41

M128401

42

M128754

1622

3

MS21919WF18

Purchased

No

Each

10.0000

1

MS21919WF18

CLAMP

14/09/30 KC

Location

Loc Qty

Loc Code

CA

10

m129686

10

Each

16.0000

1

MS21919WF3

Purchased

No

MS21919WF3

CLAMP

14/09/30 KC

Location

Loc Qty

Loc Code

CA

16

M129682

16

Each

88.0000

4

MS24678-26

Purchased

No

MS24678-26

CAP SCREW

14/09/30 KC

Location

Loc Qty

Loc Code

CA

88

M129682

88

Each

0.0000

2

MS24693S272

Purchased

No

MS24693S272

SCREW

14/09/30 KC

M130799

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Tuesday, September 16, 2014 8:30:00 AM

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

MS24693-S296

Purchased

No

Each

213.0000

12

MS24693-S296

SCREW CSK

14/09/30 KC

Location

Loc Qty

Loc Code

CA

213

M129682

213

Each

21.0000

2

14/09/30 KC

MS25171-1S

Purchased

No

MS25171-1S

BOOT

Location

Loc Qty

Loc Code

CA

21

M129682

21

Each

9.0000

1

14/09/30 KC

MS27212-1-5

Purchased

No

MS27212-1-5

Terminal Strip

Location

Loc Qty

Loc Code

CA

9

M129682

9

Each

94.0000

1

14/09/30 KC

MS29512-04

Purchased

No

MS29512-04

O-RING

Location

Loc Qty

Loc Code

CA

76

m129682

76

ST284

18

m127305

4

m129541

14

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
--	--	---	--

Picklist Print

Tuesday, September 16, 2014 8:30:00 AM

Page 11

Work Order ID: 124577

Parent Item: 41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

124577***41228-202-133-004***

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

11728-200-013-001

Purchased

No

Each

6.0000

1

11728-200-013-001

NUT RING, PROBE

**

14/09/30 KC

LocationLoc QtyLoc Code

CA

6

m129575

3

m129682

3

Each

9.0000

1

11728-200-015-001

Purchased

No

11728-200-015-001

REINFORCEMENT PLATE

**

14/09/30 KC

LocationLoc QtyLoc Code

CA

9

m129575

3

m129682

6

Each

7.0000

1

41228-202-087-001

Manufactured

No

41228-202-087-001

412 Transfer Pump Spacer Ring

**

14/09/30 KC

LocationLoc QtyLoc Code

CA

7

m129682

7

Each

10.0000

1

41228-202-094-001

Purchased

No

41228-202-094-001

Fitting

**

14/09/30 KC

LocationLoc QtyLoc Code

CA

10

M129998

10

Tuesday, September 16, 2014 8:30:00 AM

Shop Packet Print

Page 11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Crosstube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐
--	--	---

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
--	--	---	--

Picklist Print

Page 12

Tuesday, September 16, 2014 8:30:00 AM

Work Order ID: 124577

124577

Parent Item: 41228-202-133-004

41228-202-133-004

Parent Item Name: Pump Plate Assembly Transfer, RH

Start Date: 9/17/14

Required Date: 9/30/14

Start Qty: 1.00

Required Qty: 1.00

41228-203-005-003

Manufactured

No

Each

14.0000

1

41228-203-005-003

14/09/30 KC

Fuel Probe 7740-00437

Location

Loc Qty

Loc Code

CA

M129682

14

14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design ☐									
Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge	☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03768				SHEET 1 OF 1	
	DWG NO. 41228-202-133		REV: D	PREPARED BY J. GARDINER	DATE: 01/14/13	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: TRANSFER PUMP MOUNTING PLATE ASSY					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>		QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REVISED F/N 18, 21 & 55.				

**CONTROL COPY
ISSUED DATE**

JAN 23 2013

*14-9-16
124577*

55	R	650.0210	1	1	1	1	1	1	DRAIN VALVE NUT		
21	R	601.3401	13	13	13	13	13	13	WASHER	NAS1149D0463J	
18	R	601.3400	3	3	3	3	3	3	NUT	NAS679-A06	
F/N	TC	PART NUMBER	-006	-005	-004	-003	-002	-001	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY								
DOCUMENTS EFFECTED:									CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ MDL ☐ INSTALL INSTRUC ☐ ICA ☒ BOM									☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

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REV	DESCRIPTION	DATE	BY
A	INCORPORATED EDIT A-1 THRU A-9	12-05-95	D. BRADY
B	ADDED -003/-004 ASSY, CHANGED MFG ASSY, ADDED SHEETS 3 & 4; ADDED NOTES 1 & 2; REPLACED 41229-000-000-001 41229-000-000-001 41229-002-136-001 ASSY, ADDED FIND HOLE TO DWG.	06-08-98	
C	ADDED -005 & -006 ASSY'S, ADDED ITEM REA & REB 41229-000-040-001 1 -005 P/N 2 41229-000-013-001 TO 11229-000-013-001 DEL- LETED ITEM 4); ADDED SHEET C-1 TO SHEET 41229-000-013-001 30 THRU 32, UPDATED MFG ASSY.		
D	INCORPORATED ENR 01196, 01927 & 01919	10-28-10	P. BRADY

UNINCORPORATED ECN(S)

03768

6	6	6	6	6	6	22	AN960PD4	WASHER					
13	13	13	13	13	13	21	NAS1149D0463J	WASHER					
10	10	10	10	9	9	20	601.1718	WASHER		NAS1149D0363J			
2	2	2	2	2	2	19	AN960JD716	WASHER			△		
3	3	3	3	3	3	18	NAS679-A06	NUT			△		
1	1	1	1	1	1	17	MS29512-08	O-RING					
1	1	1	1	1	1	16	MS29512-04	O-RING					
1	1	1	1	1	1	15	MS29513-113	O-RING					
1	1	1	1	1	1	14	MS29513-010	O-RING					
1	1	1	1	1	1	13	MS29513-020	O-RING					
					1	12	A470-1	DRAIN VALVE			△		
					1	11	AE1011664H0480	HOSE ASSY			△		
3	3	3	3	2	2	10	41228-202-091-001	PROBE GASKET					
1	1	1	1	1	1	9	41228-203-045-001	PLUG					
2	2	2	2	1	1	8	41228-202-091-003	PUMP GASKET					
1	1	1	1	1	1	7	41228-202-136-001	MOUNTING BKT./THERMISTOR LEAD ASSY					
1	1	1	1	1	1	6	41228-202-094-001	FITTING					
1	1	1	1	1	1	5	41228-202-137-001	RETAINER					
					1	4	41228-203-005-005	FUEL PROBE					
1	1				1	3	41228-203-005-003	FUEL PROBE					
1						2B	41228-202-148-002	TRANSFER PUMP MOUNTING PLATE					
	1					2A	41228-202-148-001	TRANSFER PUMP MOUNTING PLATE					
			1	1		2	41228-200-012-001	TRANSFER PUMP MOUNTING PLATE					
					1	1	41228-202-116-001	TRANSFER PUMP MOUNTING PLATE					
X	X	X	X	X	X		41228-202-133-006	R/H ASSY					
							41228-202-133-005	L/H ASSY					
							41228-202-133-004	R/H ASSY					
							41228-202-133-003	L/H ASSY					
							41228-202-133-002	R/H ASSY			△		
							41228-202-133-001	L/H ASSY			△		
-006	-005	-004	-003	-002	-001	FIN D	PART No.	DESCRIPTION	MAT'L	SPEC			
QTY REQ'D							PARTS LIST						
NEXT ASSY(S)							ORIGINAL DATE 01-28-94						
41228-200-006							DRAWN BY CHODOR						
41228-200-005							T. MARVILLE						
41228-200-004							DRAWING APPROVAL						
							CONTRACT NO.						
							UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DIMENSIONS TO FACE UNLESS NOTED OTHERWISE FRACTIONS SHALL BE 1/16 OR HIGHER DECIMALS SHALL BE .005					REV D	
							 APICAL INDUSTRIES, INC. 200 TOWN CENTER DR., SUITE 100, WESTPORT, MA 02157-1000 (PH) 781-281-0000					TRANSFER PUMP MOUNTING PLATE ASSY	
							SIZE B CASE CODE DWG NO. 41228-202-133					REV D	
							SCALE NONE					SHEET 1 OF 6	

▲▲ ROCHESTER GAUGES, INC. DALLAS TX.
 ▲▲ (USE WITH MS27212-1-5 ONLY)
 ▲▲ (USE WITH MS27212-1-3 ONLY)
 ▲▲ PARKER HANNIFIN CORP. AIRBORNE DMSION ELYRIA, OHIO
 ▲▲ ALT P/N 800-515-1001S / BELL HELICOPTER FT. WORTH, TX.
 ▲▲ AUTO VALVE, DAYTON, OH.
 ▲▲ SHAW AERO, FT. MEYERS, FLA.
 ▲▲ ALT P/N NAS1149D0363J
 ▲▲ ALT P/N BACN10J006
 ▲▲ SHAW AERO DEVICES NAPLES FL.
 ▲▲ AEROQUIP JACKSON MICH.
 ▲▲ INSULATOR, F/N 37, SENT AS PART OF FUEL PROBE, F/N 3 OR F/N 4
 ▲▲ P/N 41228-202-133-004 REPLACES P/N 41228-202-133-002.
 ▲▲ P/N 41228-202-133-003 REPLACES P/N 41228-202-133-001.

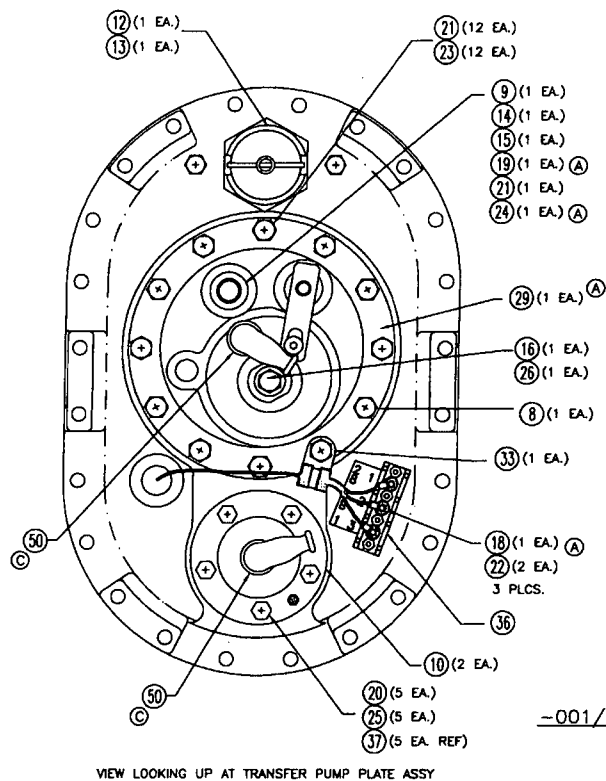
NOTES:

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1	1	1	1	1	1	56	15-716	GASKET			△
1	1	1	1	1	1	55	A-588-A	NUT, DRAIN VALVE			
						54	21228-301-005-005	DECAL			△
1						53	21228-301-005-004	DECAL			△
						52	21228-301-005-003	DECAL			△
					1	51	21228-301-005-002	DECAL			△
2	2	2	2	2	2	50	MS25171-1S	BOOT			
1	1	1	1	1	1	49	601.2182	WASHER	NAS1149D0332J		
1	1	1	1	1	1	48	41228-202-087-001	TRANSFER PUMP SPACER RING			
12	12	12	12	12	12	47	MS24693-S296	CSK SCREW			
1	1	1	1	1	1	46	513B-8B	DRAIN VALVE ELECTRIC			△
							A280-1 OR -2	DRAIN VALVE ELECTRIC			△
4	4	4	4	4	4	45	MS24678-26	CAP SCREW			
1	1	1	1	1	1	44	11728-200-015-001	REINFORCEMENT PLATE			
1	1	1	1	1	1	43	11728-200-014-001	SPACER RING			
1	1	1	1	1	1	42	11728-200-013-001	NUT RING			
1	1	1	1	1	1	41	MS27212-1-5	TERMINAL STRIP			
8	8	8	8	8	8	40	AN4-5A	BOLT			
2	2	2	2	2	2	39	MS24693S272	SCREW			
1	1	1	1	1	1	38	AN815-8D	FITTING			
REF	REF	REF	REF	REF	REF	37	40S20	INSULATOR			
						36	MS27212-1-3	TERMINAL STRIP			
1	1	1	1	1	1	35	MS29513-270	O-RING			
1	1	1	1	1	1	34	MS21919WF18	CLAMP			
3	3	3	3	3	3	33	MS21919WF3	CLAMP			
3	3	3	3	3	3	32	MS21042-3	NUT			
1	1	1	1	1	1	31	601.1621	SCREW	MS27039-1-08		
1	1	1	1	1	1	30	AN3H-10A	BOLT			
1	1	1	1	1	1	29	1C64-1	TRANSFER PUMP			△
2	2	2	2	2	2	28	120-068-13	SEAL (A)			△
1	1	1	1	1	1	27	AN3H-7A	BOLT			
1	1	1	1	1	1	26	AN814-4DL	PLUG			
5	5	5	5	5	5	25	AN3-12A	BOLT			
1	1	1	1	1	1	24	AN4H-42A	BOLT			
						23	AN4-5A	BOLT			
×	×	×	×	×	×		41228-202-133-006	R/H ASSY			
×	×	×	×	×	×		41228-202-133-005	L/H ASSY			
×	×	×	×	×	×		41228-202-133-004	R/H ASSY			
×	×	×	×	×	×		41228-202-133-003	L/H ASSY			
×	×	×	×	×	×		41228-202-133-002	R/H ASSY			
×	×	×	×	×	×		41228-202-133-001	L/H ASSY			

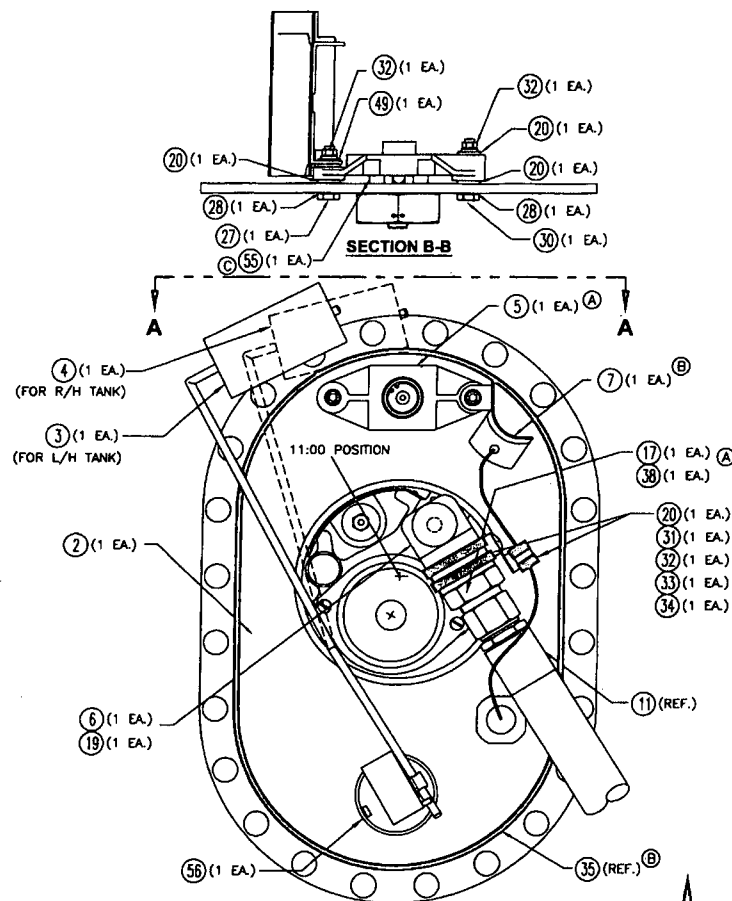
QTY REQ'D	PART No.	DESCRIPTION	MAT'L	SPEC
PARTS LIST				
NEXT ASSY(S)				
APICAL INDUSTRIES, INC. 11000 W. 11TH AVE. SUITE 100 MINNEAPOLIS, MN 55420 TEL: 612-835-1100 DATE: 01-28-84 BY: T. MARVILLE CHKD: [] CONTRACT No. []				
SCALE: NONE SHEET 2 of 8 41228-202-133				

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VIEW LOOKING UP AT TRANSFER PUMP PLATE ASSY

-001/-002 PLATE ASSY

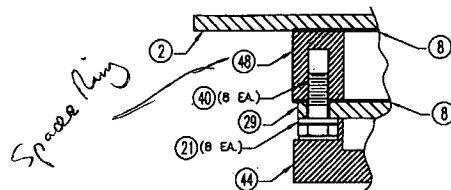


VIEW LOOKING DOWN AT TRANSFER PUMP PLATE ASSY

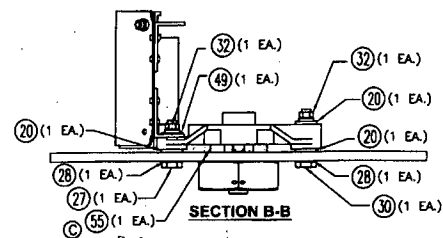
ORIGINAL DATE 01-28-04 (REV. 001-002)		DRAWN BY JEDDER	
T. HARVILLE		DRAWING APPROVAL	
CONTRACT No.		APICAL INDUSTRIES, INC. 41228-202-133	
UNLESS OTHERWISE SPECIFIED		TRANSFER PUMP MOUNTING PLATE ASSY	
SIZE B	DATE CODE 07M28	DRG. No. 41228-202-133	REV. D
SCALE NONE		SHEET 3 of 6	

1 2 3 4 5 6 7 8

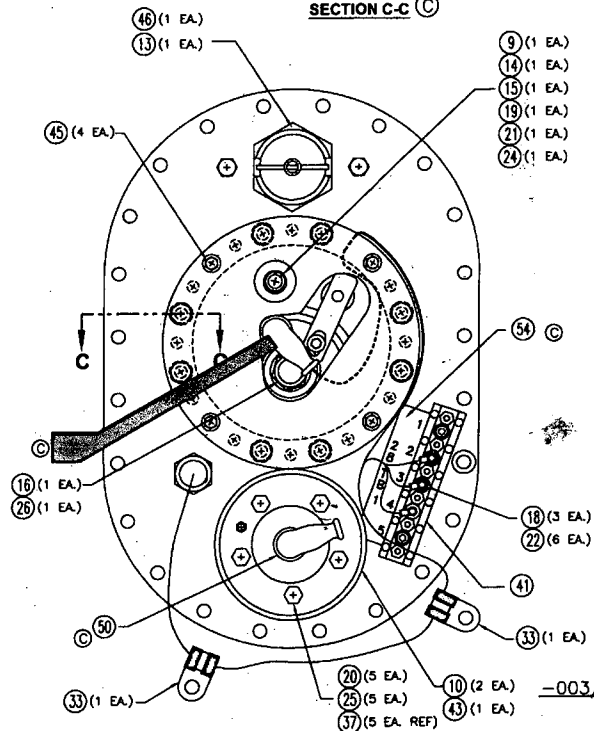
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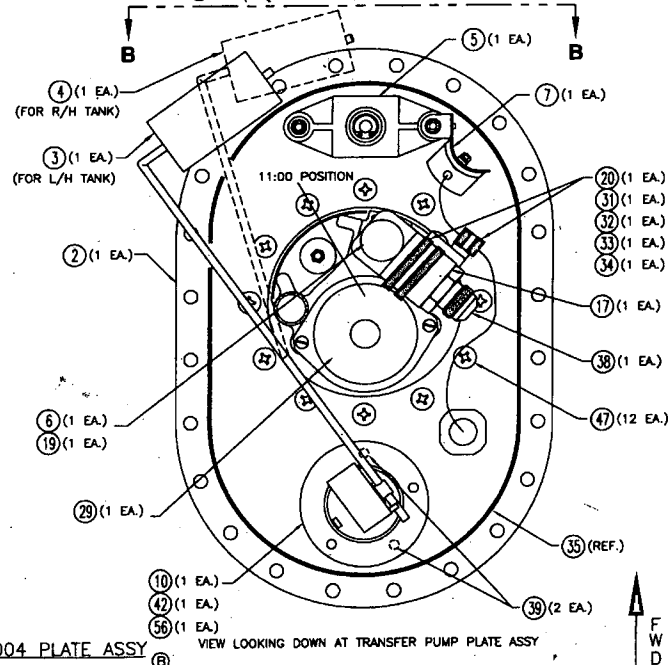
SECTION C-C



SECTION B-B



VIEW LOOKING UP AT TRANSFER PUMP PLATE ASSY

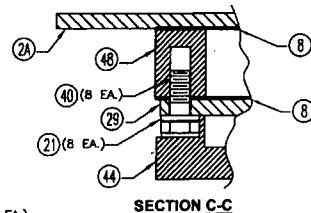


VIEW LOOKING DOWN AT TRANSFER PUMP PLATE ASSY

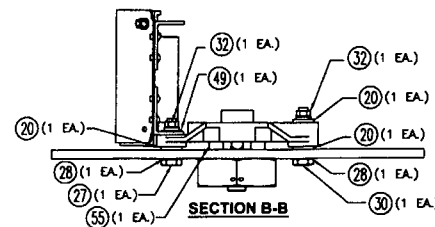
-003/-004 PLATE ASSY

ORIGINAL DATE 01-28-84		APICAL INDUSTRIES, INC.	
DRAWN BY T. HARVEY		CHECKED BY	
DRAWING APPROVAL		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED		SCALE NONE	
DIMENSIONS ARE IN INCHES		SHEET 4 OF 8	
TOLERANCES ARE		REV	
FRACTIONS 1/16" & UP		41228-202-133	
DECIMALS 0.0005" & UP		D	
ANGLES 1/2°			

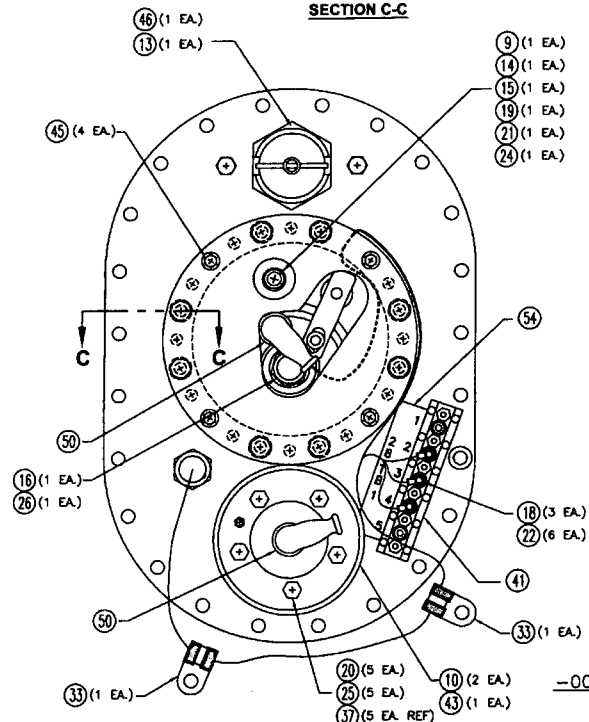
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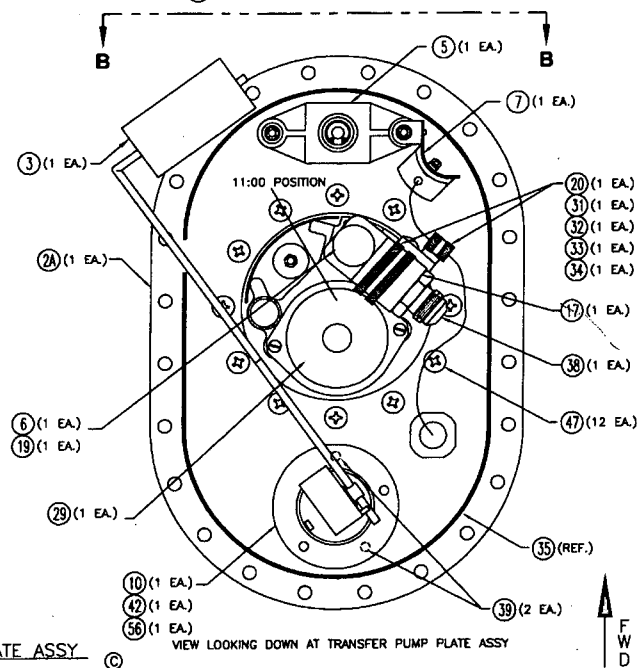
SECTION C-C



SECTION B-B



VIEW LOOKING UP AT TRANSFER PUMP PLATE ASSY



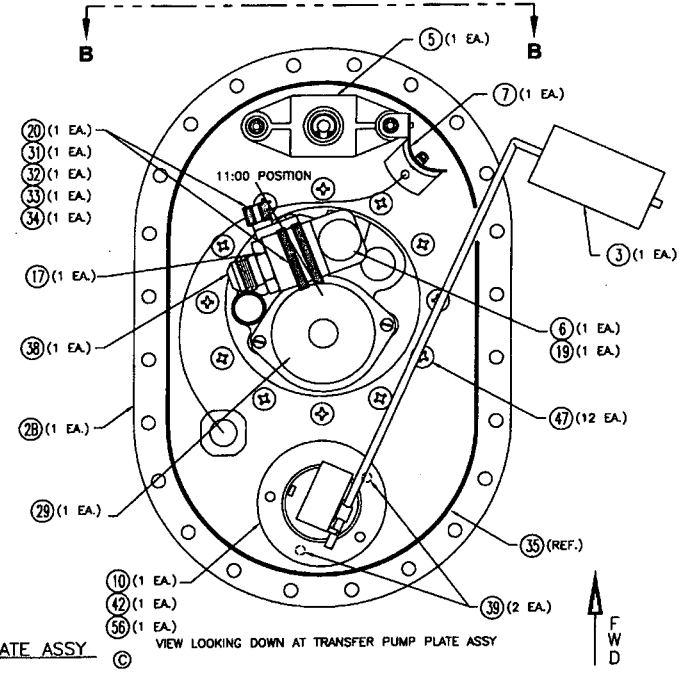
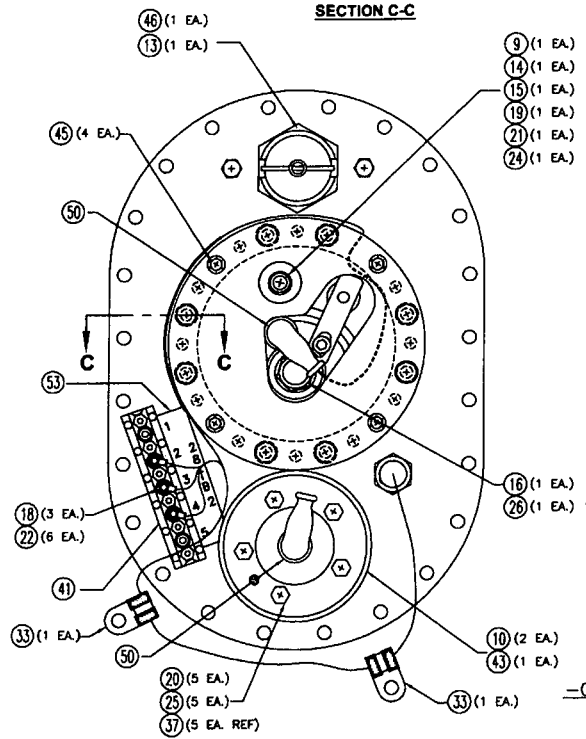
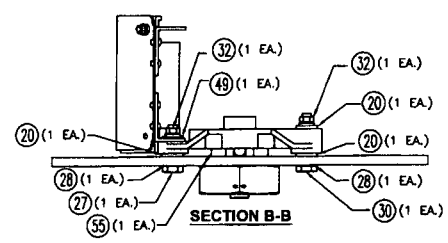
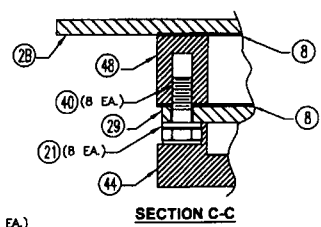
VIEW LOOKING DOWN AT TRANSFER PUMP PLATE ASSY

-005 PLATE ASSY.

ORIGINAL DATE 01-28-04	DESIGNED BY T. HANVILLE	APICAL INDUSTRIES, INC. 1000 N. 10TH AVE. SUITE 100 DENVER, CO 80202-2028
CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS FRACTIONS DECIMALS	REV. DATE CODE (SPEC. NO.) B 07/2/04 41228-202-133	REV. DATE CODE (SPEC. NO.) D
SCALE: NONE		SHEET 5 OF 8

1 2 3 4 5 6 7 8

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-006 PLATE ASSY

ORIGINAL DATE: 01-28-64 (02-28-70)		DRAWN BY: T. HAYVILLE	
DRAWING APPROVAL:		CHECKER:	
CONTRACT NO.:		REV.:	
WHICH STANDARD SPECIFIED:		REV.:	
DIMENSIONS ARE IN INCHES		REV.:	
TOLERANCES ARE:		REV.:	
FRACTIONS: 1/16, 1/8, 1/4, 1/2, 3/4		REV.:	
DECIMALS: 0.0005, 0.001, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1.0		REV.:	
ANGLES: 1°, 5°, 10°, 15°, 30°, 45°, 60°, 75°, 90°, 105°, 120°, 135°, 150°, 165°, 180°		REV.:	
SCALE: NONE		REV.:	
SHEET 6 OF 6		REV.:	

APICAL INDUSTRIES, INC.
2001 W. 10TH AVE. SUITE 100
DENVER, CO 80202 (303) 733-0000

TRANSFER PUMP MOUNTING PLATE ASSY

REV. 07/28/70 41228-202-133 D